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1 A survey of rollback-recovery protocols in message-passing systems
   E. N. (Mootaz) Elnozahy, Lorenzo Alvisi, Yi-Min Wang, David B. Johnson
   September 2002   **Computing Surveys (CSUR)** , Volume 34 Issue 3
   Publisher: ACM
   Full text available: 📄 Pdf (549.68 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review
   Bibliometrics: Downloads (6 Weeks): 83, Downloads (12 Months): 610, Citation Count: 84

   This survey covers rollback-recovery techniques that do not require special language constructs. In the first part of the survey we classify rollback-recovery protocols into *checkpoint-based* and *log-based*. *Checkpoint-based* protocols ...

   Keywords: message logging, rollback-recovery

2 Experiences with selecting search engines using metasearch
   Daniel Dreilinger, Adele E. Howe
   July 1997   **Transactions on Information Systems (TOIS)** , Volume 15 Issue 3
   Publisher: ACM
   Full text available: 📄 Pdf (428.65 KB)   Additional Information: full citation, abstract, references, cited by, index terms, review
   Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 237, Citation Count: 40

   Search engines are among the most useful and high-profile resources on the Internet. The problem of finding information on the Internet has been replaced with the problem of knowing where search engines are, what they are designed to retrieve, and how ...

   Keywords: WWW, information retrieval, machine learning, search engine

3 Efficient exploitation of similar subexpressions for query processing

Jingren Zhou, Per-Ake Larson, Johann-Christoph Freytag, Wolfgang Lehner

June 2007 **SIGMOD '07:** Proceedings of the 2007 ACM SIGMOD international conference on Management of data

Publisher: ACM

Full text available: Pdf (374.79 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 124,   Citation Count: 3

Complex queries often contain common or similar subexpressions, either within a single query or among multiple queries submitted as a batch. If so, query execution time can be improved by evaluating a common subexpression once and reusing the result ...

Keywords: query optimization, query processing, similar subexpressions

4 Operational management of time-sharing systems

Richard R. Linde, Paul E. Chaney

July 1966 **Communications of the ACM**, Volume 9 Issue 7

Publisher: ACM

Full text available: Pdf (654.43 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 20,   Citation Count: 0

5 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)

September 2005 **SIGSOFT Software Engineering Notes**, Volume 30 Issue 5

Publisher: ACM

Full text available: Pdf (1.98 MB)   Additional Information: full citation, index terms

Bibliometrics: Downloads (6 Weeks): 55,   Downloads (12 Months): 362,   Citation Count: 0

6 Preparing resource discovery for digitized music: an analysis of an australian application

Jennifer A. Thomas, Michael R. Middleton, Margaret Warren

June 2007 **JCDL '07:** Proceedings of the 7th ACM/IEEE-CS joint conference on Digital libraries

Publisher: ACM

Full text available: Pdf (260.63 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 74,   Citation Count: 0

This paper examines procedures for the creation and delivery of digital music that are being undertaken by contributors to the National Library of Australia's federated music gateway *MusicAustralia*. The case study discusses access to and preservation ...

Keywords: Australia, audio media, case study, digital libraries, digitization, federated searching, interoperability, music

7   Subdomain testing of units and systems with state

Dick Hamlet

July   **ISSTA '06:** Proceedings of the 2006 international symposium on Software
2006   testing and analysis
Publisher: ACM

Full text available: Pdf (397.12   Additional Information: full citation, abstract, references, cited,
KB)   by, index terms

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 66, Citation Count: 2

This paper extends basic software-testing theory to software components and adds explicit state to the theory. The resulting theory is simple enough to abstractly model the construction of systems from their parts ('units'). It provides an unconventional ...

Keywords: persistent state, testing theory, unit/system testing

8   picoJava-II in an FPGA

Wolfgang Puffitsch, Martin Schoeberl

September   **JTRES '07:** Proceedings of the 5th international workshop on Java
2007   technologies for real-time and embedded systems
Publisher: ACM

Full text available: Pdf (274.50   Additional Information: full citation, abstract, references, index
KB)   terms

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 72, Citation Count: 0

picoJava is a Java microprocessor developed by Sun to speedup execution of Java in embedded systems and an often-cited reference design for other Java processors. Information about implementations of picoJava is rare however. In contrast to a number ...

Keywords: FPGA, Java processor

9   Information retrieval

Robert M. Hayes

July 1966   **Communications of the ACM** , Volume 9 Issue 7
Publisher: ACM

Full text available: Pdf (654.43
KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 29, Citation Count: 0

10 Personalizing access to learning networks

Peter Dolog, Bernd Simon, Wolfgang Nejdl, Tomaž Klobučar

February 2008 **Transactions on Internet Technology (TOIT)** , Volume 8 Issue 2

Publisher: ACM

Full text available: Pdf (1.32 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 45, Downloads (12 Months): 451, Citation Count: 2

In this article, we describe a *Smart Space for Learning™* (SS4L) framework and infrastructure that enables personalized access to distributed heterogeneous knowledge repositories. Helping a learner to choose an appropriate learning resource ...

Keywords: Personalization, learning networks, ontologies, personalized access, semantic Web

11 Scalable error detection using boolean satisfiability

Yichen Xie, Alex Aiken

January 2005 **POPL '05:** Proceedings of the 32nd ACM SIGPLAN-SIGACT symposium on Principles of programming languages

Publisher: ACM

Full text available: Pdf (276.56 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8, Downloads (12 Months): 87, Citation Count: 30

We describe a software error-detection tool that exploits recent advances in boolean satisfiability (SAT) solvers. Our analysis is path sensitive, precise down to the bit level, and models pointers and heap data. Our approach is also highly scalable, ...

Keywords: boolean satisfiability, error detection, program analysis

Also published in:
January 2005 **SIGPLAN Notices** Volume 40 Issue 1

12 SlicK: slice-based locality exploitation for efficient redundant multithreading

Angshuman Parashar, Anand Sivasubramaniam, Sudhanva Gurumurthi

November 2006 **ASPLOS-XII:** Proceedings of the 12th international conference on Architectural support for programming languages and operating systems

Publisher: ACM

Full text available: Pdf (304.49 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 67, Citation Count: 4

Transient faults are expected a be a major design consideration in future microprocessors. Recent proposals for transient fault detection in processor cores have revolved around the idea of redundant threading, which involves redundant execution of a ...

Keywords: backward slice extraction, microarchitecture, redundant threading, transient faults

Also published in:

October 2006	**SIGOPS Operating Systems Review**	Volume 40 Issue 5
October 2006	**SIGARCH Computer Architecture News**	Volume 34 Issue 5
November 2006	**SIGPLAN Notices**	Volume 41 Issue 11

13 A language and model for computer design

N. G. Denil

July 1966   **Communications of the ACM** , Volume 9 Issue 7

Publisher: ACM

Full text available: Pdf (654.43 KB)   Additional Information: full citation

Bibliometrics: Downloads (6 Weeks): 0,   Downloads (12 Months): 13,   Citation Count: 0

14 WebKhoj: Indian language IR from multiple character encodings

Prasad Pingali, Jagadeesh Jagarlamudi, Vasudeva Varma

May 2006   **WWW '06:** Proceedings of the 15th international conference on World Wide Web

Publisher: ACM

Full text available: Pdf (480.79 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 9,   Downloads (12 Months): 74,   Citation Count: 1

Today web search engines provide the easiest way to reach information on the web. In this scenario, more than 95% of Indian language content on the web is not searchable due to multiple encodings of web pages.Most of these encodings are proprietary and ...

Keywords: Indian languages, non-standard encodings, web search

15 A machine-checked model for a Java-like language, virtual machine, and compiler

Gerwin Klein, Tobias Nipkow

July 2006   **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 28 Issue 4

Publisher: ACM

Full text available: Pdf (2.68 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 21,   Downloads (12 Months): 176,   Citation Count: 16

We introduce Jinja, a Java-like programming language with a formal semantics designed to exhibit core features of the Java language architecture. Jinja is a compromise between the realism of the language and the tractability and clarity of its formal ...

Keywords: Java, operational semantics, theorem proving

16 Towards computationally sound symbolic analysis of key exchange protocols

Prateek Gupta, Vitaly Shmatikov

November 2005   **FMSE '05:** Proceedings of the 2005 ACM workshop on Formal methods in security engineering

Publisher: ACM

Full text available: Pdf (176.37 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 33, Citation Count: 1

We present a cryptographically sound formal method for proving correctness of key exchange protocols. Our main tool is a fragment of a symbolic protocol logic. We demonstrate that proofs of key agreement and key secrecy in this logic imply simulatability ...

Keywords: computational soundness, cryptographic protocols, protocol logic, symbolic analysis

17 An evaluation of the VME architecture for use in embedded systems education

Kenneth G. Ricks, David J. Jackson, William A. Stapleton

October 2005   **SIGBED Review** , Volume 2 Issue 4

Publisher: ACM

Full text available: Pdf (546.82 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 39, Citation Count: 0

The VMEbus is an IEEE standard architecture upon which many embedded and real-time systems are built. It has existed for nearly 25 years and has been extensively used for military, industrial, and aerospace applications. This paper describes the general ...

Keywords: computer architecture, computer engineering education, educational technology, embedded systems

18 Tolerating memory leaks

Michael D. Bond, Kathryn S. McKinley

October 2008   **OOPSLA '08:** Proceedings of the 23rd ACM SIGPLAN conference on Object-oriented programming systems languages and applications

Publisher: ACM

Full text available: Pdf (1.11 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 34,   Downloads (12 Months): 172,   Citation Count: 0

Type safety and garbage collection in managed languages eliminate memory errors such as dangling pointers, double frees, and leaks of unreachable objects. Unfortunately, a program still leaks memory if it maintains references to objects it will never ...

Keywords: bug tolerance, managed languages, memory leaks

Also published in:
October 2008 **SIGPLAN Notices** Volume 43 Issue 10

19 BreadCrumbs: forecasting mobile connectivity

Anthony J. Nicholson, Brian D. Noble

September 2008   **MobiCom '08:** Proceedings of the 14th ACM international conference on Mobile computing and networking

Publisher: ACM

Full text available: Pdf (273.81 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 68,   Downloads (12 Months): 448,   Citation Count: 0

Mobile devices cannot rely on a single managed network, but must exploit a wide variety of connectivity options as they travel. We argue that such systems must consider the *derivative* of connectivity--the changes inherent in movement between separately ...

Keywords: BreadCrumbs, connectivity forecast, derivative of connectivity, opportunistic connectivity

20 Let caches decay: reducing leakage energy via exploitation of cache generational behavior

Zhigang Hu, Stefanos Kaxiras, Margaret Martonosi

May 2002   **Transactions on Computer Systems (TOCS)** , Volume 20 Issue 2

Publisher: ACM

Full text available: Pdf (873.03 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 8,   Downloads (12 Months): 54,   Citation Count: 11

Power dissipation is increasingly important in CPUs ranging from those intended for mobile use, all the way up to high-performance processors for highend servers. Although the bulk of the power dissipated is dynamic switching power, leakage power is ...

Keywords: Cache memories, cache decay, generational behavior, leakage power

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